



# Developing with Drupal

Click, click, code, click....

## Drupal?

- Content Management System (**CMS**)
- Content Management **Framework**
- Extensibility: **Lego** principle
- **13.000+ modules** freely available
- Building **blocks** for everything
- procedural, **hook-based** architecture
- Runs **2% of** sites on the **internet**

~~Developing with Drupal~~

## Happy Clicking with Drupal

- The **site builder** configures the application
- Only write PHP code if you must and re-use all the things!
- From a developer perspective this may be a little frustrating as you mostly only need to develop the hard things customer come with.

## Some “**Backend**” Impressions

- Modules Page
- Content Listing
- Content Edit

## Modules

LIST

UPDATE

UNINSTALL



There are updates available for one or more of your modules or themes. To ensure the proper functioning of your site, you should update as soon as possible. See the [available updates](#) page for more information and to install your missing updates.

Download additional [contributed modules](#) to extend Drupal's functionality.

Regularly review and install [available updates](#) to maintain a secure and current site. Always run the [update script](#) each time a module is updated.

[+ Install new module](#)

### ▼ CORE

ENABLED	NAME	VERSION	DESCRIPTION	OPERATIONS
<input type="checkbox"/>	<b>Aggregator</b>	7.23	Aggregates syndicated content (RSS, RDF, and Atom feeds).	
<input checked="" type="checkbox"/>	<b>Block</b>	7.23	Controls the visual building blocks a page is constructed with. Blocks are boxes of content rendered into an area, or region, of a web page. Required by: Dashboard ( <b>enabled</b> )	<a href="#">? Help</a> <a href="#">Permissions</a> <a href="#">Configure</a>
<input type="checkbox"/>	<b>Blog</b>	7.23	Enables multi-user blogs.	
<input type="checkbox"/>	<b>Book</b>	7.23	Allows users to create and organize related content in an outline.	

Modules Page

Content

CONTENT

COMMENTS

NEWSLETTERS

LOCKED DOCUMENTS

+ Add content

SHOW ONLY ITEMS WHERE

status

any

▼

type

any

▼

Filter

UPDATE OPTIONS

Publish selected content

▼

Update

<input type="checkbox"/>	TITLE	TYPE	AUTHOR	STATUS	UPDATED ▼	OPERATIONS	WEIGHT
<input type="checkbox"/>	Why (coding) standards and best practices matter <b>new</b>	Session	Johannes Haseitl	published	2013-10-09 16:19	<a href="#">edit</a> <a href="#">delete</a>	
<input type="checkbox"/>	Image styles and processing in Drupal <b>new</b>	Session	Johannes Haseitl	published	2013-10-09 15:35	<a href="#">edit</a> <a href="#">delete</a>	
<input type="checkbox"/>	Semantic Web Company	Sponsor	Michael Klobutschar	published	2013-10-09 13:05	<a href="#">edit</a> <a href="#">delete</a>	

# Content Listing

## Edit Session Love thy vagrant

VIEW

EDIT

REVISIONS

DEVEL

- ✓ This document is now locked against simultaneous editing. It will unlock when you navigate elsewhere.
- Your lock will be considered stale and up for grabs in 30 min.

### Title \*

Love thy vagrant

### Speaker \*

Sebastian Götschkes (36)

Reference one or more speakers

### Description

Before there was vagrant, the days were dark and the nights were cold. Developers suffered from the "It works on my machine" virus. Weeks were wasted by setting up development environments, trying to reproduce the colleagues settings to finally start developing on that piece of software.

No more! Using a virtual machine to run the whole software stack and shared configuration for all developers, with vagrant it's possible to be as close to the production server as needed and get it up and running in under on hour - No matter how complex that stack is.

This talk will introduce the audience to the wonders of vagrant:

<ul>

# Content Edit

# Drupal philosophy: Klaus

- Rapid prototyping without writing a single line of code
- Build 80% of the site's features with existing modules
- Write 10% of features as reusable module for drupal.org + bug fixing
- Write 10% of features as custom internal code



## Drupal WTFs explained

- **procedural PHP?**
  - Well-tested and documented code.
  - Drupal 8 is going OOP.
- **500 database tables?**
  - Translatable, multi-value, revisionable field tables.
- **Configuration in the database?**
  - Exportable with Features module
  - YAML files in Drupal 8.
- **500 nested HTML template files?**
  - Use an intelligent base theme and generic styling

# The good stuff for developers

- Entity and Field API
- Form and Render API
- Views: query builder
- Queue and Batch API
- Drush: command line control
- Online documentation, books, screencasts

## The dark side

- Steep learning curve (“Drupalisms”)
- Configuration takes time, too
- Hard to unit test (SimpleTest is slow)
- Hard to deploy (without Features module)

## hook\_menu() example

```
function mymodule_menu() {
  $items['example/%node'] = array(
    'title' => 'Example Page',
    'page callback' => 'mymodule_page',
    'page arguments' => array(1),
    'access arguments' => array('access content'),
    'type' => MENU_SUGGESTED_ITEM,
  );
  $items['example/feed'] = array(
    'title' => 'Example RSS feed',
    'page callback' => 'example_feed',
    'access arguments' => array('access content'),
    'type' => MENU_CALLBACK,
  );
  return $items;
}
```

# Page callback example

```
function mymodule_page($node) {
  $data = mymodule_do_something($node);
  return array(
    'first_para' => array(
      '#type' => 'markup',
      '#markup' => '<p>A paragraph about some stuff...</p>',
    ),
    'second_para' => array(
      '#items' => $data->items,
      '#theme' => 'item_list',
    ),
  );
}
```

## Debugging example

```
function mymodule_page($node) {
    $data = mymodule_do_something($node);
    dpm($data);
}
```

- 

... (Array, 1 element)

0 (Array, 2 elements)

0 (String, 3 characters ) one

1 (String, 3 characters ) two



**Krumo version 0.2.1a** | <http://krumo.sourceforge.net>

Called from **/home/klausl/workspace/drupal-7/includes/form.inc**, line **1473**

## Useful **Resources**

- [drupal.org](https://drupal.org)
- [drupal.org/project/devel](https://drupal.org/project/devel)
- [github.com/drush-ops/drush](https://github.com/drush-ops/drush)
- [drupal.stackexchange.com](https://drupal.stackexchange.com)
  
- [groups.drupal.org](https://groups.drupal.org) (Community)
- [drupal-austria.at](https://drupal-austria.at) (Local Community)
- [drupical.com](https://drupical.com) (Events)





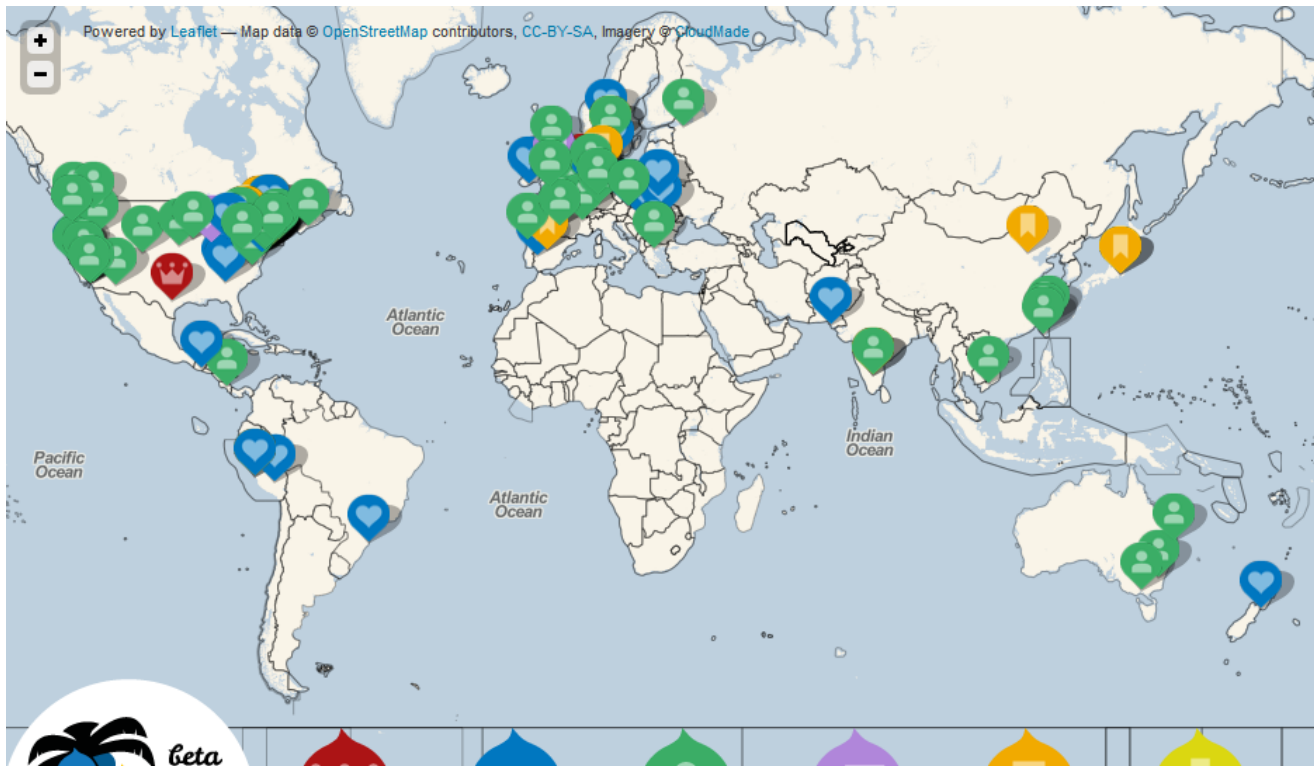
Drupal has the **largest open-source community** worldwide.

**999.219 people** in **228 countries** speaking **181 languages** power Drupal.

**29.409 Code Committers**



## There are **events**.



Drupalcon



Drupalcamp or  
Summit



User group  
meeting



Sprint



Training



Related event

[about](#) • [tw](#) • [fb](#) • [todo](#) • [changelog](#) 111 drupal events

*Find Drupal events with ease!*

All Continents  All Countries

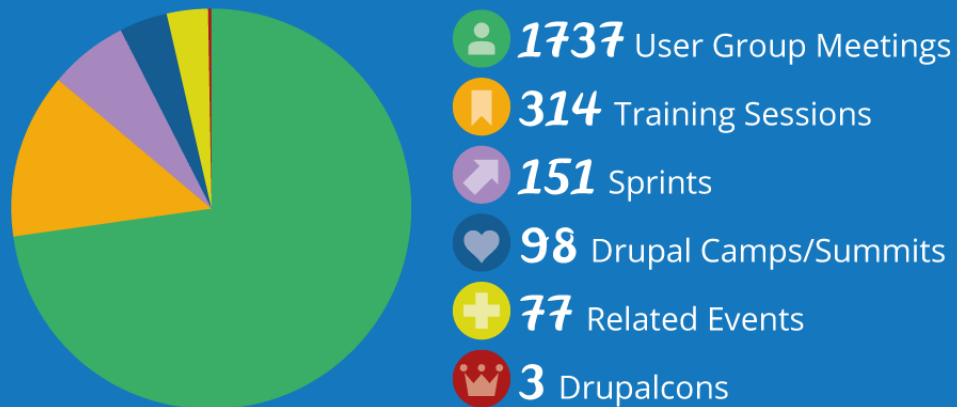
- Oct 8 **Drupal Melbourne Meetup**  
Australia, Carlton, VIC  
8. October 2013 18:00-21:00
- Oct 8 **Brisbane meetup**  
Australia, Woolloongabba, QLD  
8. October 2013 19:00-21:00
- Oct 8 **Drupal Pittsburgh Meetup**  
United States, Pittsburgh, PA  
8. October 2013 19:00-21:00
- Oct 8 **Main LA Drupal meetup: Case Study | Kern County Central Kitchen**  
United States, Los Angeles, CA  
8. October 2013 19:00-21:00
- Oct 8 **Meeting**  
Canada, Bedford, NS  
8. October 2013 19:00-20:00
- Oct 9 **Meetup of Cedar Valley DrupalHawkians**  
United States, Cedar Falls, IA  
9. October 2013 15:30-17:00
- Oct 9 **Meetup at the Southroads Technology Park**  
United States, Bellevue, NE  
9. October 2013 17:30-19:30
- Oct 9 **DrupalACT Meetup**  
Australia, Braddon, ACT  
9. October 2013 18:00-20:00

There are **many** events.

## *1 year of Drupal events visualized*

Event facts from 12. July 2012 to 12. July 2013

### *Drupal Event Types*



**2380 Drupal Events**  
*in 1 Year!*

## There are **DrupalCamps**.

Powered by Leaflet — Map data © OpenStreetMap contributors, CC-BY-SA, Imagery © CloudMade

Atlantic Ocean, Pacific Ocean, Indian Ocean

**drupal** *Beta*

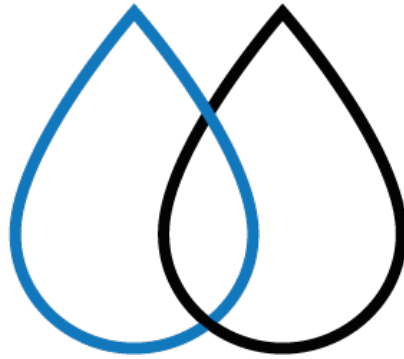
Drupalcon
 **Drupalcamp or Summit**
 User-group meeting
 Sprint
 Training
 Related-event

[about](#) • [tw](#) • [fb](#)
[todo](#) • [changelog](#)
25 drupal events

### Find Drupal events with ease!

All Continents  All Countries

- DrupalCamp Târgu Mureș 2013**  
Romania, Târgu Mureș  
2-3. November 2013
- DrupalCamp Cork 2013**  
Ireland, Cork  
8-9. November 2013
- DrupalHagen 2013**  
Denmark, Copenhagen  
8-9. November 2013
- Drupal Camp Chattanooga 2013**  
United States, Chattanooga, TN  
9. November 2013 09:00-16:30
- DrupalCamp Floripa 2013**  
Brazil, Florianopolis, SC  
15-16. November 2013
- DrupalCamp Oslo 2013**  
Norway, Oslo  
16. November 2013 10:00-18:00
- DrupalCampNW 2013**  
United Kingdom, Manchester  
22-24. November 2013
- DrupalCamp Vienna 2013 - Connecting Open Minds**  
Austria, Wien  
22-24. November 2013



# DrupalCamp Vienna 2013

connecting open minds

- **22-24. November** at FH Technikum Wien
- **Non-profit** event, organized by local community
- Expecting over **300 attendees**
- Low **ticket price of € 25** (early-bird) incl. lunch
- You must **be there!**